



Patent
Attorney's Docket No. 029430-454

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)	
Misako MIZUNO et al.)	Group Art Unit: 1638
Application No.: 09/577,657)	Examiner: Anne R. Kubelik
Filed: May 25, 2000)	Confirmation No.: 6902
For: GENE ENCODING CAFFEINE)	
SYNTHESIS SYSTEM)	
ASSOCIATED ENZYME AND USE)	
THEREOF)	

REPLY & AMENDMENT

Sir:

In complete response to the Office Action mailed May 3, 2002, please amend the above-cited application as follows:

IN THE CLAIMS

Please cancel Claim 22.

Please amend Claims 1, 2, 4, 5, 7, 14, 17, 20, 21 and 23 as follows:

1. (Twice Amended) An isolated DNA molecule comprising either of the following nucleotide sequences:

(a) a nucleotide sequence encoding N-methyl transferase of SEQ ID NO:1 and having the N-methyl transferase enzyme activities of 7-methylxanthine N3 methyl transferase, theobromine N1 methyl transferase and paraxanthine N3 methyl transferase; or

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